TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-02-23-02**	**Date: 26-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.	
Address	:	Yelahanka Sub division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.	
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03	
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-02-2018	
Sample ID No	:	2018-02-23-02/01	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of test	:	23-02-2018	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.1	0.9	98.2	Minimum Retained Coating 95%
2	97.8	2.2		
3	97.6	2.4		

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-02-23-02** **Date: 26-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-2018
Sample ID No	:	2018-02-23-02/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	23-02-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	14.73	13.43	10KN(min)
2	Marshal flow at 60°C, mm	3.08	3.75	2-4
3	Percent air Voids	5.63	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.82	14.73	13-15
5	Percent Voids filled with Bitumen(VFB %)	67.09	65.20	65-75
6	Density, g/cc	2.25	2.26	–

Note:-
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-03-05-13**	**Date: 07-03-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.	
Address	:	Yelahanka Sub division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.	
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03	
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	05-03-2018	
Sample ID No	:	2018-03-05-13/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	05-03-2018	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	501
2	Weight of the sample After extraction	B	468	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.96	6.39
4	Average percentage	%	6.7	

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Lab ID : CP-RW-2018-03-05-13 **Date: 07-03-2018**

Sample ID : 2018-03-05-13/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	103	103	22.0	78.0	70-88
4.75	94	197	42.0	58.0	53-71
2.36	42	239	51.0	49.0	42-58
1.18	5	243	52.0	48.0	34-48
0.6	89	332	71.0	29.0	26-38
0.3	23	356	76.0	24.0	18-28
0.15	33	388	83.0	17.0	12-20
0.075	47	435	93.0	7.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	38	38	8.0	92.0	90-100
9.5	94	131	28.0	72.0	70-88
4.75	61	192	41.0	59.0	53-71
2.36	61	253	54.0	46.0	42-58
1.18	19	272	58.0	42.0	34-48
0.6	61	333	71.0	29.0	26-38
0.3	33	366	78.0	22.0	18-28
0.15	33	399	85.0	15.0	12-20
0.075	42	441	94.0	6.0	4-10

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-02-20-17** **Date: 22-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-17/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	20-02-2018

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

Note:-

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-02-20-17** **Date: 22-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-17/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	20-02-2018

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:-
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TEST RESULTS OF BITUMEN BINDER CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-02-26-14** **Date: 27-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	26-02-2018
Sample ID No	:	2018-02-26-14/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	26-02-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.0	5.2
4	Average percentage	%	5.1	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-02-23-02** **Date: 26-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-2018
Sample ID No	:	2018-02-23-02/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	23-02-2018
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	300	300	6.0	94.0	90-100
9.5	450	750	15.0	85.0	70-88
4.75	1200	1950	39.0	61.0	53-71
2.36	150	2100	42.0	58.0	42-58
1.18	550	2650	53.0	47.0	34-48
0.6	450	3100	62.0	38.0	26-38
0.3	600	3700	74.0	26.0	18-28
0.15	600	4300	86.0	14.0	12-20
0.075	250	4550	91.0	9.0	4-10
PAN	450	5000	100	0.0	0

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-02-23-02** **Date: 26-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-2018
Sample ID No	:	2018-02-23-02/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	23-02-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.3	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	13.1		
Strength	Aggregate Impact Value	21.0	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.6	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.1	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2018-02-15-06 **Date: 17-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-2018
Sample ID No	:	2018-02-15-06/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	15-02-2018

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.7	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-02-15-06** **Date: 17-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-2018
Sample ID No	:	2018-02-15-06/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	15-02-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	25.2%	

Note:-
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TEST REPORT ON BITUMEN

Lab ID	:	CP-RW-2018-02-17-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-2018
Sample ID No	:	2018-02-17-10/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	17-02-2018

Date: 19-02-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part I) 1963 (RA2011)

Lab ID	:	CP-RW-2018-02-20-17
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-17/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	20-02-2018
Weight of Sample	:	5000 Grams

Date: 22-02-2018

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.56	90-100
19	1013	1185	23.70	76.30	71-95
13.2	520	1705	34.10	65.90	56-80
4.75	1150	2855	57.10	42.90	38-54
2.36	680	3535	70.70	29.30	28-42
0.3	950	4485	89.70	10.30	7-21
0.075	272	4757	95.14	4.86	2-8
PAN	243	5000	0.00	0	0

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-02-15-06** **Date: 17-02-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-2018
Sample ID No	:	2018-02-15-06/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	15-02-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	3.2	96.9	95-100
22.4	2259	2574	25.7	74.3	60-80
11.2	2179	4753	47.5	52.5	40-60
4.75	2251	7004	70.0	30.0	25-40
2.36	1490	8494	84.9	15.1	15-30
0.6	606	9100	91.0	9.0	8-22
0.075	900	10000	100.0	0.0	0-5

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-01-25-01** **Date: 27-01-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Papanna layout in ward No-01 of yelahanka Sub division.
Agency	:	Sri.Ashok.G, No:54, 1st Main Road, 3rd Cross, Vyalikaval, Bangalore-03
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/000008/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-2018
Sample ID No	:	2018-01-25-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	25-01-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1960	7424	74.24	25.76	20-40
0.425	1500	8924	89.24	10.76	10-25
0.075	1076	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
The results pertain to the samples received and tested.
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